

## SUPPLEMENTARY TABLES

**Supplementary Table 1 :** The design of primer sequences for PCR.

ST8-AS1-qPCR-1F	5'-CCATCCATCATGGCCAAAGC-3'
ST8-AS1-qPCR-1R	5'-CAGGGTTTCTTCGGTCGTCA-3'
ST8-AS1-qPCR-2F	5'-CATGCTCCTCCTTGCTCCAA-3'
ST8-AS1-qPCR-2R	5'-TGGCACAGATATCAGGTGAAG-3'
GAPDH-qPCR-F	5'-ACAACCTTTGGTATCGTGGAAGG-3'
GAPDH-qPCR-R	5'-GCCATCACGCCACAGTTTC-3'
OE-hFOXA1-F	5'-ATGTTAGGAAGTGTGAAGATGGAAGG-3'
OE-hFOXA1-R	5'-CTAGGAAGTGTTTAGGACGGGTCT-3'
OE-hMYC-F	5'-CTGGATTTTTTTTCGGGTAGTGG-3'
OE-hMYC-R	5'-TTACGCACAAGAGTTCCGTAGC-3'
ST8-AS1-sgRNA1-S	5'-CACCGCGTAAAGCCGCCTTGCGCCT-3'
ST8-AS1-sgRNA1-A	5'-AAACAAGGCGCAAGGCGGCTTACGC-3'
ST8-AS1-sgRNA2-S	5'-CACCGCCCAGGAGGCTGACGTACG-3'
ST8-AS1-sgRNA2-A	5'-AAACCGTACGTCAGCCTCCCTGGGC-3'
ST8-AS1-sgRNA3-S	5'-CACCGAGGAGCTCGATCACAAGGTC-3'
ST8-AS1-sgRNA3-A	5'-AAACGACCTTGTGATCGAGCTCCTC-3'
gDNA-ST8-AS1--260-F	5'-CAGGCAGTTTAAATGAATGC-3'
gDNA-ST8-AS1-+1489-R	5'-TTGATCTGGGGATAAAGAAAC-3'
CHIP-qPCR-BS1-F	5'-TCTTTTTTCATGCTCCTCCTTGC-3'
CHIP-qPCR-BS1-R	5'-ACTCACCAATAGGTTCTGGGC-3'
CHIP-qPCR-BS2-F	5'-CTGACTGGGCTCAGGCATGC-3'
CHIP-qPCR-BS2-R	5'-CCTTGATGTCCCAAGCCTG-3'
CHIP-qPCR-FOXA1-F	5'-TGGATGTGTCTCTTCTCT-3'
CHIP-qPCR-FOXA1-R	5'-GTAGGTAAACCGGTTTAAC-3'

ST8SIA6-AS1: ST8SIA6 antisense RNA 1, qPCR: Quantitative polymerase chain reaction, OE: Overexpression, FOXA1: Forkhead box A1, sgRNA: Single-guide RNA, BS1: Binding site 1, BS2: binding site 2  
A: Adenosine, C: Cytosine, G: Guanine, T: Thymine

**Supplementary Table 2:** Seven transcripts of ST8SIA6-AS1 were annotated in the LNCipedia database (<https://lncipedia.org/>).

Transcript ID	Gene ID	Location (hg38)	Strand	Transcript size
ST8SIA6-AS1:1	ST8SIA6-AS1	chr10:17386924-17408274	+	462
ST8SIA6-AS1:2	ST8SIA6-AS1	chr10:17386936-17408286	+	557
ST8SIA6-AS1:3	ST8SIA6-AS1	chr10:17386936-17410631	+	1826
ST8SIA6-AS1:4	ST8SIA6-AS1	chr10:17386951-17410631	+	1811
ST8SIA6-AS1:5	ST8SIA6-AS1	chr10:17386994-17408286	+	404
ST8SIA6-AS1:6	ST8SIA6-AS1	chr10:17399102-17410631	+	1689
ST8SIA6-AS1:7	ST8SIA6-AS1	chr10:17408027-17413503	+	372

ST8SIA6-AS1: ST8SIA6 antisense RNA 1